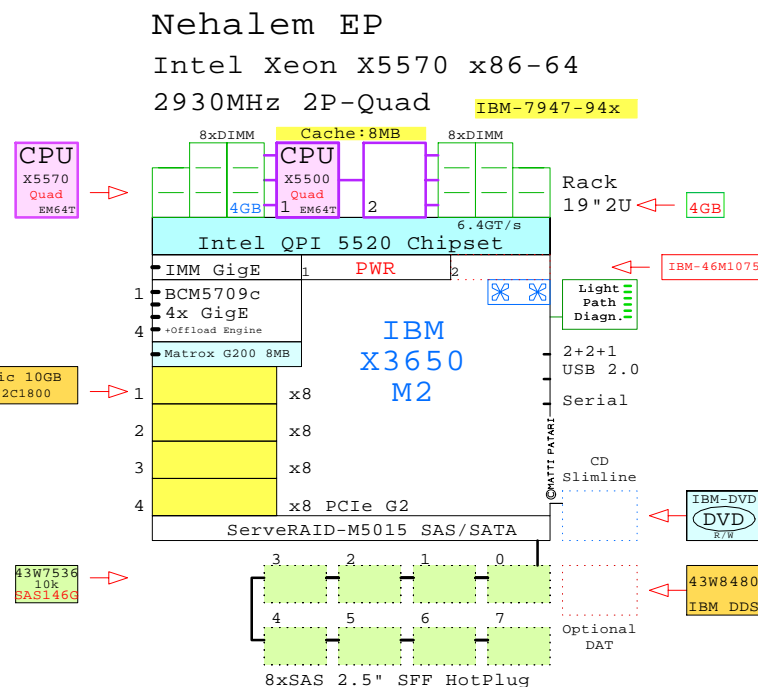


GOLDEN EGGS

Visual Cook Book For: IBM X86-64 Servers

- 1 - Front page
- 2 - xServer Family Map
- 3 - x3550 M2 Intel Xeon 2P 1U
- 4 - x3650 M2 Intel Xeon 2P 2U
- 5 - x3690 X5 Intel Xeon 2P 2U
- 6 - x3655 AMD Opteron 2P 2U
- 7 - x3850 M2 Intel Xeon 4P 4U
- 8 - x3850 X5 Intel Xeon 4P 4U
- 9 - x3755 AMD Opteron 4P 4U
- 10 - x3890 X5 Intel Xeon 8P 8U
- 11 - BladeCenter S
- 12 - BladeCenter H
- 13 - BladeServers AMD and Xeon



This document is a collection of IBM x86-64 servers. It is prepared for End-customers, Partners and Sales personnel.
A picture talks all languages.

Created by:
Matti.Patari@Kolumbus.Fi Helsinki

Tip for detail printing:
- Zoom in area of interest
- Print, Print Current View

Golden Eggs Home:
<http://www.goldeneggs.fi>

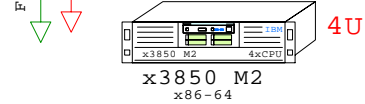
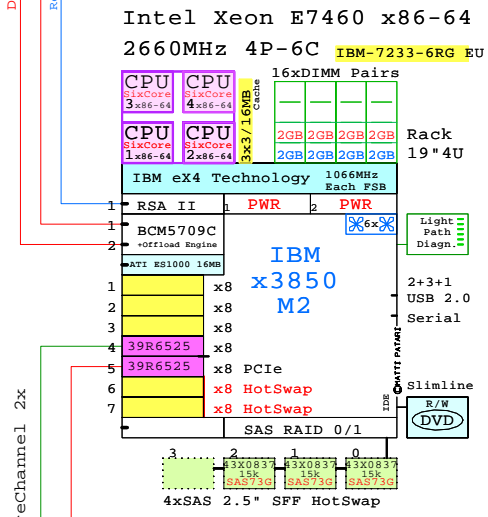
GE-IBM-X86-10-Mar-2010.pdf

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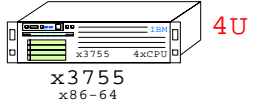
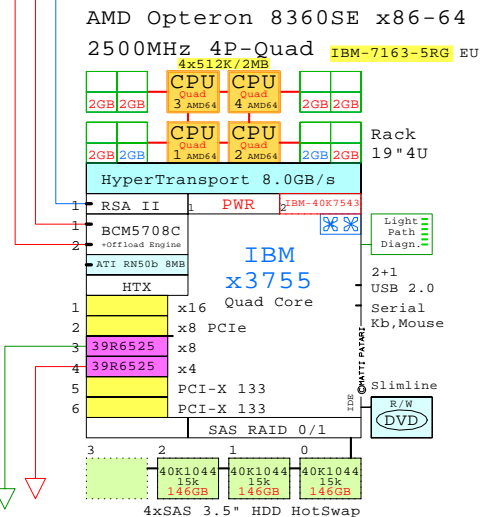
GOLDEN EGGS Visuals™ Helsinki	10-Mar-2010	GE-IBM-X86b
	Matti.Patari@Kolumbus.Fi	
IBM x86 Server 2P 4P 8P Intel AMD GOLDEN EGGS Visuals, Helsinki		

IBM x86 Servers 2P 4P 8P

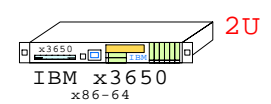
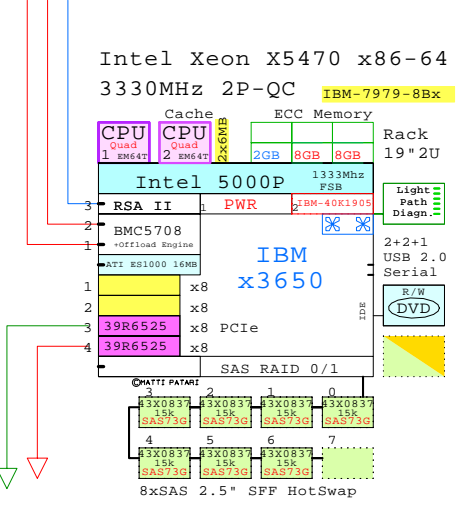
Xeon 4P 4U



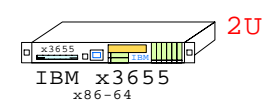
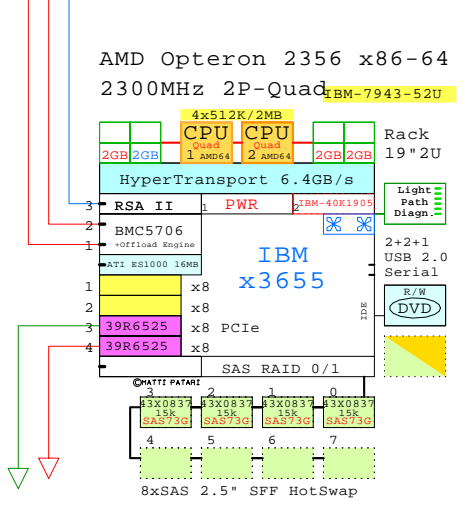
Opteron 4P 4U



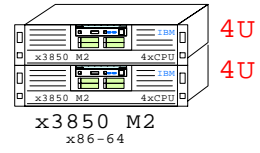
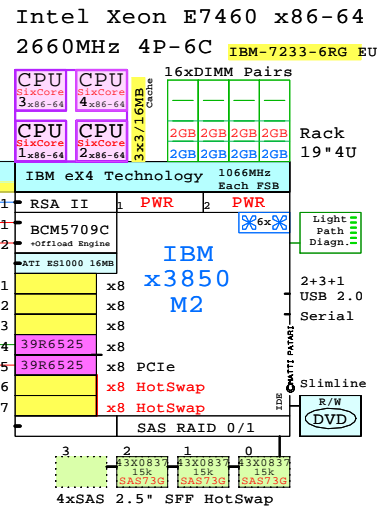
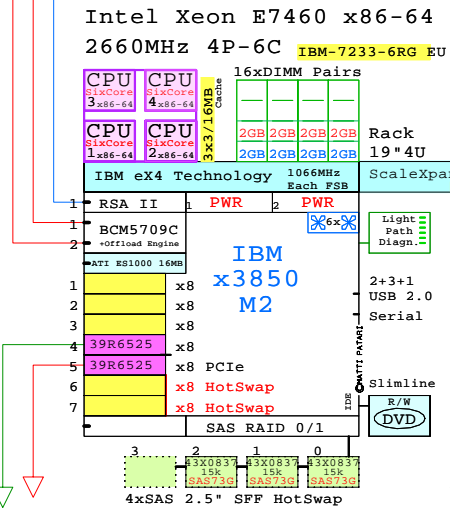
Xeon 2P 2U



Opteron 2P 2U



Xeon 8P 8U



IBM x86 Servers 8P, 4P, 2P Intel, AMD

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IBM x86 Server 8P, 4P, 2P Intel, AMD
GOLDEN EGGS Visuals, Helsinki

First rev 21-Jan-09

IBM x3550 M2
Xeon 5500

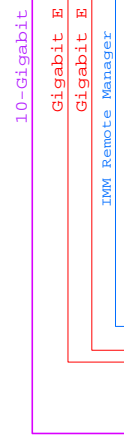
Internal Options:

- IBM-46M1087
CPU X5570 Quad EM64T
2nd Quad-Core X5570
2930MHz 8MB
- IBM-44T1483
4GB DDR3-SDRAM
1x DIMMs each
- IBM-46C7449
8GB
- IBM-46M1075
2nd Power
- IBM-43W7536
146GB 10k SAS 2.5"
- IBM-43W7670
300GB 10k SAS 2.5"
- IBM-42D0707
500GB 7.2k SAS 2.5"
- IBM-46M0901
SATA CD-RW/DVD

- IBM-42C1800
Qlogic 10Gb CNA HBA
- IBM-42C2071
Emulex FC 4Gb 2-ch

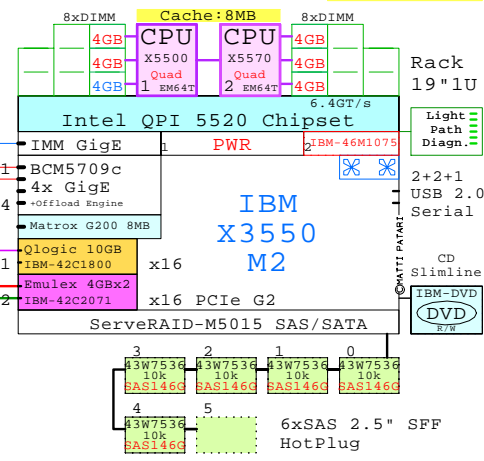
++ Plus many more std PCIe I/O modules...

- IBM-39Y7917
Need 2x
39Y7917 PowerCord EU



Example Configuration
x86-64

Intel Xeon X5570 x86-64
2930MHz 2P-Quad IBM-7946-94x



2x 4Gb Fibre Channel to external storage

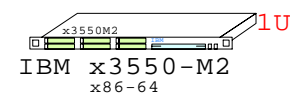
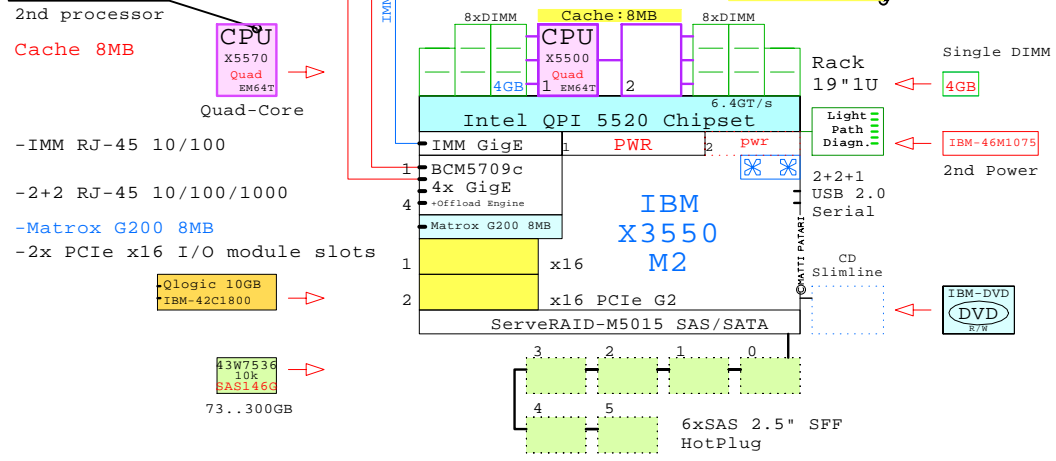
Parts list for the 2P Quad-Core IBM x3550 M2 system above

Part Number	Qty	Description
1	1	IB-7946-94x 1 IBM x3550-M2 2P Quad X5570-8MB 4GB 1U
1.1	1	IBM Qlogic 10Gb CNA server adapter
1.2	1	IBM Emulex FC 4Gb 2-ch HBA
1.3	5	IBM 146GB SAS 10000r hot-plug disk 2.5"
1.4	5	IBM 4GB PC3 DDR3 SDRAM 1x4GB
1.5	1	IBM CD-RW/DVD-ROM Option kit, slimline
1.6	1	IBM x3650-M2 second power supply
1.7	1	Xeon QC X5570-8MB 2.93GHz for x3650M2

IBM x3550 M2 Intel 5500 2P/1U

Nehalem EP
2930MHz Quad-Core

Intel Xeon X5570 x86-64
2930MHz 2P-Quad IBM-7946-94x System #



MS Windows Server 2003 and 2008
LINUX: Red Hat, SuSE
VMware Virtualization Software

Tip for detail printing:
- Zoom in area of interest
- Print, Print Current View

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Matti.Patari@Kolumbus.Fi		

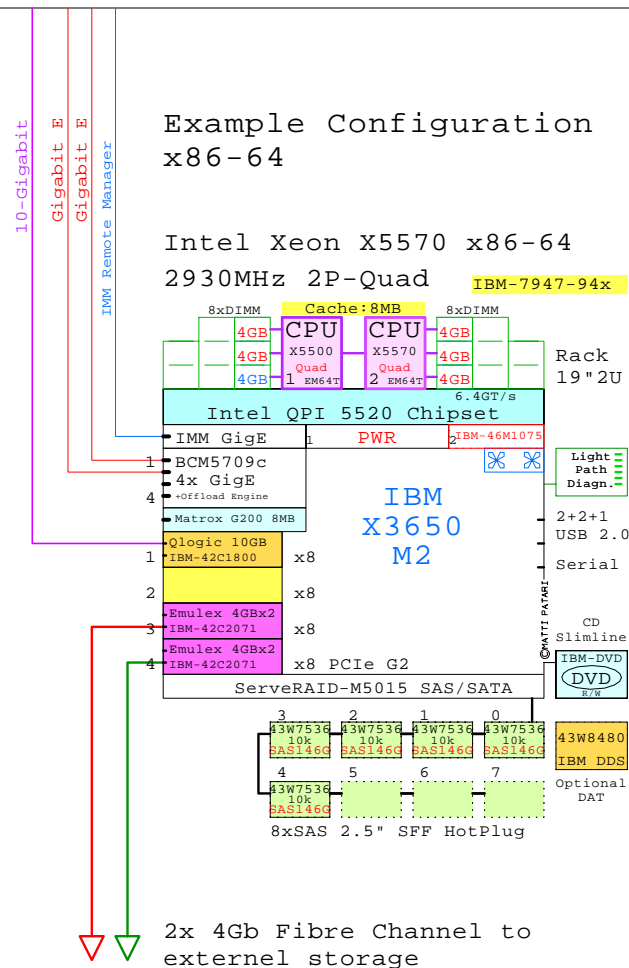
IBM System x3550M2 X5570 2930MHz
GOLDEN EGGS Visuals, Helsinki

IBM x3650 M2
Xeon 5500

Internal Options:

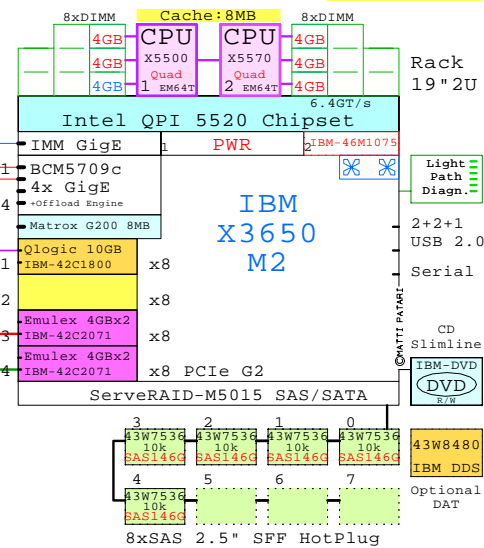
- IBM-46M1087
CPU X5570 Quad EM64T
2nd Quad-Core X5570
2930MHz 8MB
- IBM-44T1483
4GB DDR3-SDRAM
1x DIMMs each
- IBM-46C7449
8GB
- IBM-46M1075
2nd Power
- IBM-43W7536
146GB 10k SAS 2.5"
- IBM-43W7670
300GB 10k SAS 2.5"
- IBM-42D0707
500GB 7.2k SAS 2.5"
- IBM-46M0901
SATA CD-RW/DVD
- IBM-43W8480
DDS Gen5 SATA Tape

- IBM-42C1800
Qlogic 10Gb CNA HBA
- IBM-42C2071
Emulex FC 4Gb 2-ch
- ++ Plus many more std PCIe I/O modules...
- IBM-39Y7917
Need 2x
39Y7917 PowerCord EU



Example Configuration
x86-64

Intel Xeon X5570 x86-64
2930MHz 2P-Quad IBM-7947-94x



2x 4Gb Fibre Channel to external storage

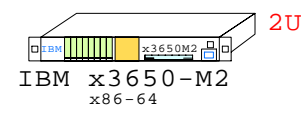
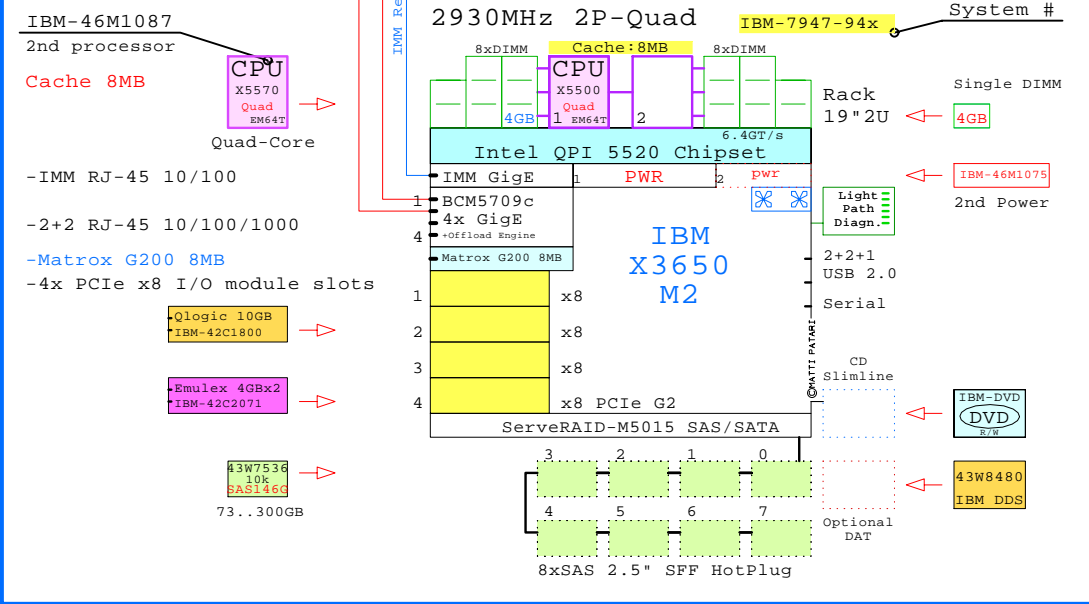
Parts list for the 2P Quad-Core IBM x3650 M2 system above

Part Number	Qty	Description
1	1	IBM-7947-94x IBM x3650-M2 2P Quad X5570-8MB 4GB 2U
1.1	1	IBM-42C1800 Qlogic 10Gb CNA server adapter
1.2	2	IBM-42C2071 Emulex FC 4Gb 2-ch PCIe HBA
1.3	5	IBM-43W7536 146GB SAS 10000r hot-plug disk 2.5"
1.4	1	IBM-43W8480 DDS Gen 5 SATA Tape Drive
1.5	5	IBM-44T1483 4GB PC3 DDR3 SDRAM 1x4GB
1.6	1	IBM-46M0901 IBM CD-RW/DVD-ROM Option kit, slimline
1.7	1	IBM-46M1075 IBM x3650-M2 second power supply
1.8	1	IBM-46M1087 Xeon QC X5570-8MB 2.93GHz for x3650M2

IBM x3650 M2 Intel 5500 2P/2U

Nehalem EP
2930MHz Quad-Core

Intel Xeon X5570 x86-64
2930MHz 2P-Quad IBM-7947-94x



MS Windows Server 2003 and 2008
LINUX: Red Hat, SuSE
VMware Virtualization Software

Tip for detail printing:
- Zoom in area of interest
- Print, Print Current View

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GOLDEN EGGS Visuals™ Helsinki 10-Mar-2010 GE-IBM-X3650M2-A
Matti.Patari@Kolumbus.Fi

IBM System x3650M2 X5570 2930MHz
GOLDEN EGGS Visuals, Helsinki

IBM x3655 AMD

Internal Options:

- IBM-44R5932
CPU
2nd Quad-Core 2356
2300MHz 4x512k/2MB
- IBM-41Y2762
2GB
- IBM-41Y2765
4GB
- IBM-41Y2768
8GB
- DDR2-SDRAM pairs
2x DIMMs each
- IBM-40K1905
2nd Power
- IBM-40K1052
73GB 10k SAS 2.5"
- IBM-43X0837
73GB 15k SAS 2.5"
- IBM-43X0824
146GB 10k SAS 2.5"
- IBM-43X1043
146GB 15k SAS 2.5"

- IBM-25R8064
25R8064 8kSAS
ServerRAID 8k SAS

- IBM-39Y6136
39Y6136
PRO/1000 PT 4-Ch

- IBM-42C1760
42C1760
10Gb PCIe HBA

- IBM-39R6525
39R6525
Qlog FC 4Gb 1-Ch

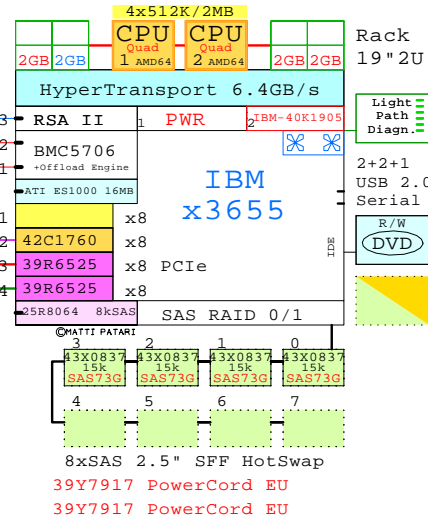
- IBM-39R6527
39R6527
Qlog FC 4Gb 2-Ch

- IBM-39Y7917
39Y7917
Need 2x
PowerCord EU

10-Gigabit
Gigabit E
Gigabit E
RAS II Remote Manager

Example Configuration x86-64 Barcelona

AMD Opteron 2356 x86-64
2300MHz 2P-Quad
IBM-7943-52U



2x 4Gb Fibre Channel to
external storage

Parts list for the 2P Quad-Core IBM x3655 system above

Part Number	Qty	Description
1	1	IBM-7943-52U 1 IBM x3655 2P QC 2356 4x512K/2MB 2GB 4U
1.1	1	IBM-25R8064 1 IBM ServerRAID 8k SAS Controller
1.2	3	IBM-39M5785 3 IBM 2GB PC2-5300 FBD 2x1GB
1.3	2	IBM-39R6525 2 IBM Qlog FC 4Gb 1-ch PCIe HBA
1.4	1	IBM-40K1905 1 IBM x3650 second power supply
1.5	1	IBM-42C1760 1 IBM 10 Gbe PCIe SR Server adapter
1.6	4	IBM-43X0837 4 IBM 73GB SAS 15000r hot-plug disk 2.5"
1.7	1	IBM-44R5932 1 IBM AMD QC Opteron 2356 Processor
2	2	IBM-39Y7917 2 IBM Power Cord 2.8m C13 to CEE7-VII EU

IBM x3655 AMD 2P/2U

2300MHz Quad-Core

IBM-44R5932
2nd processor

Cache
4x512k/2MB

Quad-Core

-RSA II RJ-45 10/100

-2x RJ-45 10/100/1000

-ATI ES1000 16MB

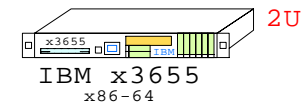
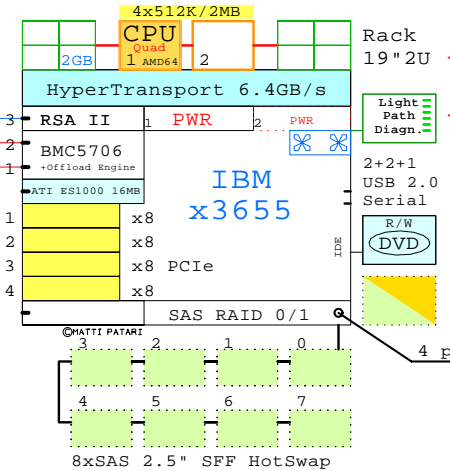
-4x PCIe fullsize slots

IBM-25R8064

IBM-43X0837

Gigabit E
Gigabit E
RAS II Remote Manager

AMD Opteron 2356 x86-64
2300MHz 2P-Quad
IBM-7943-52U



MS Windows Server 2003 and 2008
LINUX: Red Hat, SuSE
VMware Virtualization Software

Tip for detail printing:
- Zoom in area of interest
- Print, Print Current View

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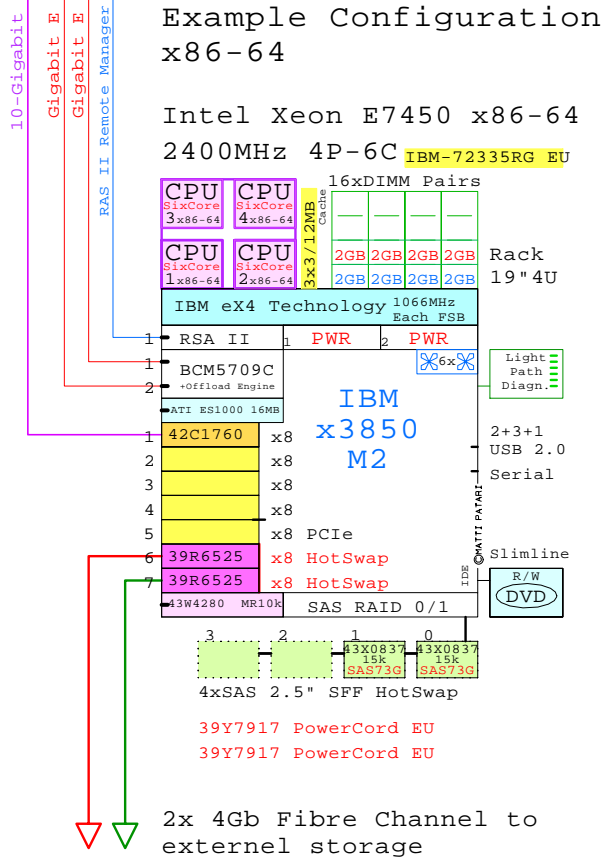
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IBM System x3655 AMD 2356 2300MH
GOLDEN EGGS Visuals, Helsinki

IBM x3850 M2 Xeon

Internal Options:

- IBM-44E4472
3/4 Six-Core E7450
2400MHz 3x3/12MB
CPU SixCore x86-64
- IBM-41Y2762
2GB
- IBM-41Y2771
4GB
- IBM-41Y2768
8GB
- IBM-43V7356
16GB
DDR2-SDRAM pairs
2x DIMMs each
- IBM-44E4252
Empty Memory
Module for four
DIMM pairs
Used in Quad systems
- IBM-40K1052
73GB 10k SAS 2.5"
40K1052 10k SAS73G
- IBM-43X0837
73GB 15k SAS 2.5"
43X0837 15k SAS73G
- IBM-43X0824
146GB 10k SAS 2.5"
43X0824 10k SAS146
- IBM-39Y6136
PRO/1000 PT 4-Ch
39Y6136
- IBM-42C1760
10Gb PCIe HBA
42C1760
- IBM-39R6525
Qlog FC 4Gb 1-Ch
39R6525
- IBM-39R6527
Qlog FC 4Gb 2-Ch
39R6527
- IBM-43W4280
ServerRAID-MR10k
43W4280 MR10k
- IBM-44E4249
For Clustering
ScaleXpander 44E4249
- IBM-39Y7917
Need 2x
39Y7917 PowerCord EU

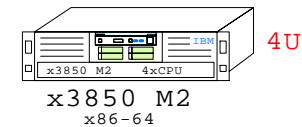
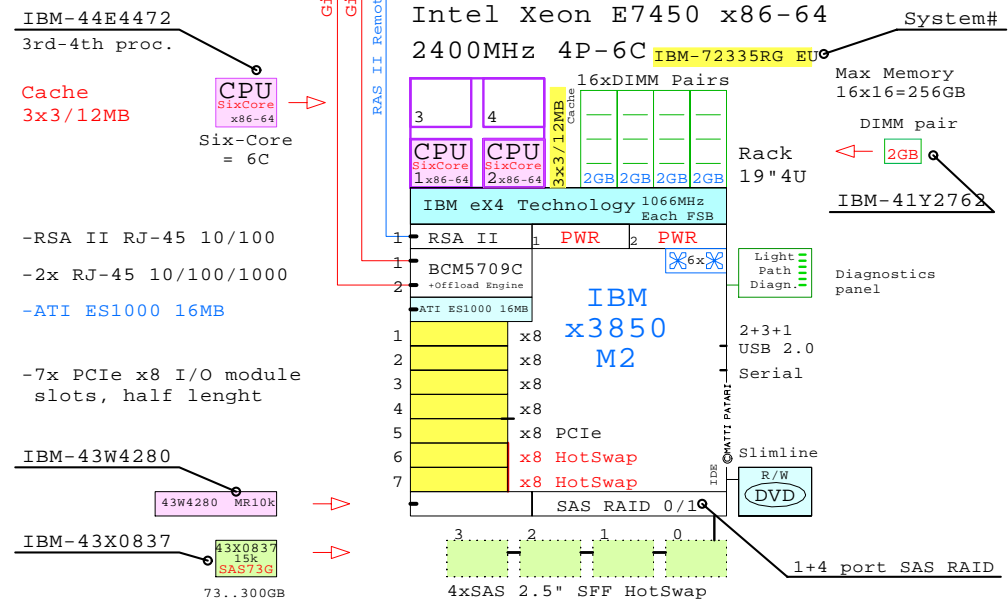


Parts list for the 4P Six-Core IBM x3850 M2 system above

Part Number	Qty	Description
1	1	IBM-72335RG IBM x3850M2 4P Six E7450 3x3/12MB 8GB 4x
1.1	2	IBM-39R6525 IBM Qlog FC 4Gb 1-ch PCIe HBA
1.2	4	IBM-41Y2762 IBM 2GB LP memory kit 2x1GB
1.3	1	IBM-42C1760 IBM 10 Gbe PCIe SR Server adapter
1.4	1	IBM-43W4280 IBM ServerRAID-MR10k SAS/SATA Controller
1.5	2	IBM-43X0837 IBM 73GB SAS 15000r hot-plug disk 2.5"
1.6	2	IBM-44E4472 IBM Xeon E7450 6core 2.4GHz 12MB Process
2	2	IBM-39Y7917 IBM Power Cord 2.8m C13 to CEE7-VII EU

IBM x3850 M2 Intel 4P/4U

2400MHz Six-Core



MS Windows Server 2003 and 2008
LINUX: Red Hat, SuSE
VMware Virtualization Software

Tip for detail printing:
- Zoom in area of interest
- Print, Print Current View

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IBM System x3850 M2 E7450 2400MH
GOLDEN EGGS Visuals, Helsinki

IBM x3755 AMD

Internal Options:

- IBM-43W7406
CPU Quad AMD64
3/4 Quad-Core 8356
2300MHz 4x512k/2MB
- IBM-41Y2762
2GB
- IBM-41Y2771
4GB
- IBM-41Y2768
8GB
- IBM-43V7356
1.6GB
DDR2-SDRAM pairs
2x DIMMs each
- IBM-40K7543
2nd Power
- IBM-40K7545
Blower Kit
- IBM-40K1043
73GB 15k 3.5" SAS
- IBM-40K1044
146GB 15k 3.5" SAS
- IBM-43X0802
300GB 15k 3.5" SAS
- IBM-42D0547
1000GB 7.2k 3.5" SAS

- IBM-25R8064
ServerRAID 8k SAS

- IBM-39Y6136
PRO/1000 PT 4-Ch

- IBM-42C1760
10Gb PCIe HBA

- IBM-39R6525
Qlog FC 4Gb 1-Ch

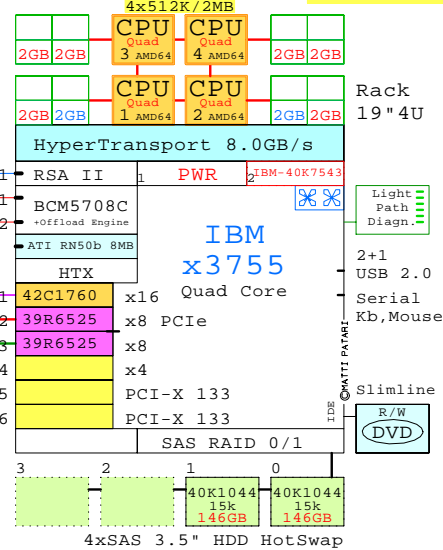
- IBM-39R6527
Qlog FC 4Gb 2-Ch

- IBM-39Y7917
Need 2x
39Y7917 PowerCord EU

10-Gigabit
Gigabit E
Gigabit E
RAS II Remote Manager

Example Configuration x86-64 Barcelona

AMD Opteron 8356 x86-64
2300MHz 4P-Quad
4x512K/2MB IBM-7163-3RG EU



39Y7917 PowerCord EU
39Y7917 PowerCord EU

2x 4Gb Fibre Channel to external storage

Parts list for the 4P Quad Core IBM x3755 system above

	Part Number	Qty	Description
1	IB-7163-3RG	1	IBM x3755 4P QC 8356 4x512K/2MB 4GB 4U
1.1	IBM-39R6525	2	IBM Qlog FC 4Gb 1-ch PCIe HBA
1.2	IBM-40K1044	2	IBM 146GB 15K 3.5" HotSwap SAS HDD
1.3	IBM-40K7543	1	IBM x3755 second power supply
1.4	IBM-40K7545	1	IBM x3755 Hot plug blower kit,5x fans
1.5	IBM-41Y2762	6	IBM 2GB LP memory kit 2x1GB
1.6	IBM-42C1760	1	IBM 10 Gbe PCIe SR Server adapter
1.7	IBM-43W7406	2	IBM AMD QC Opteron 8356 Processor
2	IBM-39Y7917	2	IBM Power Cord 2.8m C13 to CEE7-VII EU

IBM x3755 AMD 4P/4U

2300MHz Quad-Core

IBM-43W7406
3rd-4th proc.

Cache
4x512k/2MB
CPU Quad AMD64
Quad-Core

-RSA II RJ-45 10/100
-2x RJ-45 10/100/1000
-ATI RN50b 8MB

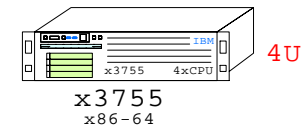
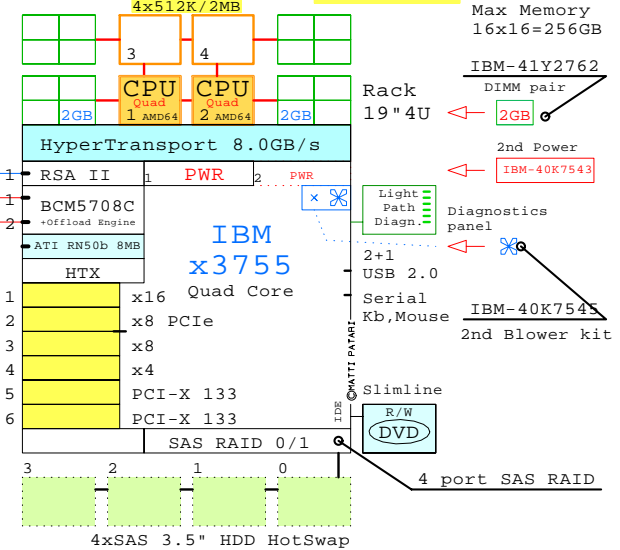
-4x PCIe fullsize slots
-2x PCI-X fullsize slots

IBM-25R8064
25R8064 8kSAS

IBM-40K1043
40K1043 15k 73GB
73..1000GB

Gigabit E
Gigabit E
RAS II Remote Manager

AMD Opteron 8356 x86-64
2300MHz 4P-Quad
4x512K/2MB IBM-7163-3RG EU



MS Windows Server 2003 and 2008
LINUX: Red Hat, SuSE
VMware Virtualization Software

Tip for detail printing:
- Zoom in area of interest
- Print, Print Current View

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IBM System x3755 AMD 8356 2300MH
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